

TECH CENTER 1600/2900





1600 #10 Don't

RAW SEQUENCE LISTING

3 <110> APPLICANT: Lu, Peter S.

PATENT APPLICATION: US/09/687,837

DATE: 04/23/2002 P.5

TIME: 09:34:13

Input Set : A:\20054210.app

```
Carman, Jonathan D.
 5
         Candia III, Albert F.
 6
         Arbbor Vita Corporation
 8 <120> TITLE OF INVENTION: CLASP-2 TRANSMEMBRANE PROTEINS
10 <130> FILE REFERENCE: 020054-000210US
12 <140> CURRENT APPLICATION NUMBER: US 09/687,837
13 <141> CURRENT FILING DATE: 2000-10-13
15 <150> PRIOR APPLICATION NUMBER: US 60/129,171
16 <151> PRIOR FILING DATE: 1999-04-14
18 <150> PRIOR APPLICATION NUMBER: US 60/134,114
19 <151> PRIOR FILING DATE: 1999-05-14
21 <150> PRIOR APPLICATION NUMBER: US 60/134,118
22 <151> PRIOR FILING DATE: 1999-05-14
24 <150> PRIOR APPLICATION NUMBER: US 60/160,860
25 <151> PRIOR FILING DATE: 1999-10-21
27 <150> PRIOR APPLICATION NUMBER: US 60/162,498
28 <151> PRIOR FILING DATE: 1999-10-29
30 <150> PRIOR APPLICATION NUMBER: US 60/170,453
31 <151> PRIOR FILING DATE: 1999-12-13
33 <150> PRIOR APPLICATION NUMBER: US 60/176,195
34 <151> PRIOR FILING DATE: 2000-01-14
36 <150> PRIOR APPLICATION NUMBER: US 60/182,296
37 <151> PRIOR FILING DATE: 2000-02-14
39 <150> PRIOR APPLICATION NUMBER: US 09/547,276
40 <151> PRIOR FILING DATE: 2000-04-11
42 <150> PRIOR APPLICATION NUMBER: US 60/134,117
43 <151> PRIOR FILING DATE: 1999-05-14
45 <160> NUMBER OF SEQ ID NOS: 152
47 <170> SOFTWARE: PatentIn Ver. 2.1
49 <210> SEQ ID NO: 1
50 <211> LENGTH: 4807
51 <212> TYPE: DNA
52 <213> ORGANISM: Homo sapiens
54 <220> FEATURE:
55 <221> NAME/KEY: CDS
56 <222> LOCATION: (2)..(4060)
58 <220> FEATURE:
59 <223> OTHER INFORMATION: Human cadherin-like asymmetry protein 2A
         (CLASP-2A)
62 <400> SEQUENCE: 1
63 a gtt tta cac cat cac caa aac cca gaa ttt tat gat gag att aaa ata 49
64 Val Leu His His Gln Asn Pro Glu Phe Tyr Asp Glu Ile Lys Ile
```

RAW SEQUENCE LISTING DATE: 04/23/2002 PATENT APPLICATION: US/09/687,837 TIME: 09:34:13

Input Set : A:\20054210.app

65 1	5	10	15
67 gag ttg ccc	c act cag ctg ca	at gaa aag cac cac ctg t	tg ctc aca ttc 97
68 Glu Leu Pro	o Thr Gln Leu Hi	is Glu Lys His His Leu I	eu Leu Thr Phe
69	20	25	30
		ac tca agt aaa gga agc a	
		sn Ser Ser Lys Gly Ser T	
73 35		40	45
		tt ggc tac tcc tgg ctt c	
-		al Gly Tyr Ser Trp Leu F	ro Leu Leu Lys
77 50	_	55 60	to too got 220 241
		gc gag cag cac atc ccg g er Glu Gln His Ile Pro V	
81 65	70 , vai vai illi se	75	80
	· -	gc tac caa gag ctt ggg a	
		ly Tyr Gln Glu Leu Gly M	
85	85	90	95
	g gaa att aaa tg	gg gta gat gga ggc aag c	ca ctg ctg aaa 337
		cp Val Asp Gly Gly Lys F	
89	100	105	110
91 att tcc act	t cat ctg gtt to	ct aca gtg tat act cag g	at cag cat tta 385
92 Ile Ser Thr	r His Leu Val Se	er Thr Val Tyr Thr Gln A	sp Gln His Leu
93 115	5	120 1	25
		gt cag aaa acc gaa tct g	
	e Phe Gln Tyr Cy	ys Gln Lys Thr Glu Ser G	ly Ala Gln Ala
97 130	13		
		ag tac ctt aag agt ctg c	
-		Lys Tyr Leu Lys Ser Leu	
101 145	150	155	160
		ttc ttg ccc act atc cta Phe Leu Pro Thr Ile Leu	
104 Gry hrs va	165	170	175
		aca cag gaa gaa gtc gcg	
		Thr Gln Glu Glu Val Ala	
109	180	185	190
111 cgg gtc at	t att cat gtg g	gtt gcc cag tgc cat gag	gaa gga ttg gag 625
112 Arg Val Il	le Ile His Val V	Val Ala Gln Cys His Glu	Glu Gly Leu Glu
113 19	95	200	205
		gtt aag tac gcg tat aag	
		Val Lys Tyr Ala Tyr Lys	Ala Glu Pro Tyr
117 210	2	215 220	
		aca gtg cat gaa gaa ctg	
		Thr Val His Glu Glu Leu	
121 225	230	235	240
		cet gee gat tte etc acc	
124 Thr Thr 11		Ser Ala Asp Phe Leu Thr	
	245	250 itc ttt gat gta ctg atc	255 aaa tot atg got 817
		Phe Phe Asp Val Leu Ile	
120 Dea Aig iy	260	265	270
- -			- · ·

RAW SEQUENCE LISTING DATE: 04/23/2002 PATENT APPLICATION: US/09/687,837 TIME: 09:34:13

Input Set : A:\20054210.app

131	cag	cat	ttg	ata	gag	aac	tcc	aaa	gtt	aag	ttg	ctg	cga	aac	cag	aga	865
132	Gln	His			Glu	Asn	Ser			Lys	Leu	Leu	Arg	Asn	Gln	Arg	
133			275					280					285				
135	ttt Db-	CCt	gca	tcc	tat	cat	cat	gca	gcg	gaa	acc	gtt	gta	aat	atg	ctg	913
			Ата	ser	тyr	Hls		Ala	Ala	Glu	Thr			Asn	Met	Leu	
137		290					295					300					
140	aly Mot	Dro	uic	alc	act	cag	aag	דננ	gga	gat	aat	cca	gag	gca	tct	aag	961
	Met 305		птъ	ire	THI	310	ьys	Pne	GIA	Asp			GLu	Ala	Ser		
			aat	cat	age		act	ata	++~	2+4	315		++	++-		320 ttc	1000
144	Asn	Ala	Asn	His	Ser	T.e.ii	Δla	Val	Dhe	Tlo	Tuc	aya Ara	Cura	Dho	acc mb=	TTC Dhe	1009
145			11011		325	Dea	nia	Val	rne	330		Arg	Cys	Pile	335	Pne	
	atg	qac	agg	aac		atc	ttc	ааσ	саσ			aac	tac	att		tat	1057
148	Met	Āsp	Arg	Gly	Phe	Val	Phe	Lvs	Gln	Tle	Asn	Asn	Tyr	Tle	Ser	Cve	1037
149		-	_	340				-1-	345				-1-	350	001	Cys	
151	ttt	gct	cct	gga	gac	cca	aag	acc	ctc	ttt	gaa	tac	aaq		σaa	ttt	1105
152	Phe	Ala	Pro	Gly	Asp	Pro	Lys	Thr	Leu	Phe	Ğlu	Tyr	Lys	Phe	Glu	Phe	2200
153			355					360					365				
155	ctc	cgt	gta	gtg	tgc	aac	cat	gaa	cat	tat	att	ccg	ttg	aac	tta	cca	1153
156	Leu	Arg	Val	Val	Cys	Asn	His	Glu	His	Tyr	Ile	Pro	Leu	Asn	Leu	Pro	
157		370					375					380					
159	atg	cca	ttt	gga	aaa	ggc	agg	att	caa	aga	tac	caa	gac	ctc	cag	ctt	1201
	Met	Pro	Phe	Gly	Lys		Arg	Ile	Gln	Arg		Gln	Asp	Leu	Gln	Leu	
	385					390					395					400	
163	gac	tac	tca	tta -	aca	gat	gag	ttc	tgc	aga	aac	cac	ttc	ttg	gtg	gga	1249
165	Asp	туг	ser	Leu		Asp	Glu	Phe	Cys		Asn	His	Phe	Leu		Gly	•
	ata	++>	at a	244	405	a+ a	~~~			410					415		
168	ctg Leu	T.e.ii	T.e.ii	Ara	Glu	y Ly Val	999	mb~	900	CLC	cag	gag	TTC	cgg	gag	gtc	1297
169	шец	пси	Lea	420	GIU	Val	СТУ	TIII	425	ьец	GIII	GIU	Pne	Arg 430	GIU	vaı	
	cgt	cta	atc		atc	agt	ata	ctc		aac	cta	cta	a + a		aa t	+ a+	1345
172	Arg	Leu	Ile	Ala	Ile	Ser	Val	Leu	Lvs	Asn	Leu	Leu	Tle	Lvs	Hic	Ser	1343
173	_		435					440	_10		Lou	шец	445	Lys	1113	per	
175	ttt	gat	gac	aga	tat	gct	tca	agg	agc	cat	caq	σca		ata	acc	acc	1393
176	Phe	Asp	Asp	Arg	Tyr	Ala	Ser	Arg	Ser	His	Gln	Ăla	Arg	Ile	Ala	Thr	
177		450					455					460					
179	ctc	tac	ctg	cct	ctg	ttt	ggt	ctg	ctg	att	gaa	aac	gtc	cag	cgg	atc	1441
180	Leu	Tyr	Leu	Pro	Leu	Phe	Gly	Leu	Leu	Ile	Glu	Asn	Val	Gln	Arg	Ile	
181						470					475					480	
183	aat	gtg	agg	gat	gtg	tca	ccc	ttc	cct	gtg	aac	gcg	ggc	atg	acc	gtg	1489
184	Asn	Val	Arg	Asp		Ser	Pro	Phe	Pro		Asn	Ala	Gly	Met		Val	
185	224	~~ L			485					490					495		
107	aag	gat	gaa	CCC	ctg	gct	cta	cca	gct	gtg	aat	ccg	ctg	gtg	acg	ccg	1537
189	Lys	ASP	GIU	500	ьeu	Ата	ьeu	Pro		val	Asn	Pro	Leu		Thr	Pro	
	cad	aan	aa s		200	at~	<i>a</i>	222	505	a+				510			1505
192	cag Gln	Lvs	Glv	Ser	Thr	T.e.u	yac Nen	adC Acn	ayç	ceg	cac	aag	gac	ctg	ctg	ggc	1585
193		<i>1</i>	515	501	T 11T	⊒Cu	uah	520	261	ьeu	urs	пуѕ	Asp 525	ьeu	ьeu	стА	
	gcc	atc		aac	att	act	tc+		tat	aca	200	+ < =		aa.	224	2+6	1633
	_	_				J		- Ju		u	400	cca	uct	CCa	aac	alc	1022

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/687,837

DATE: 04/23/2002
TIME: 09:34:13

Input Set : A:\20054210.app

	Ala		Ser	Gly	Ile	Ala		Pro	Tyr	Thr	Thr		Thr	Pro	Asn	Ile	
197		530					535					540					1 6 0 1
199	aac	agt	gtg	aga	aat	gct	gat	tcg	aga	gga	tct	CTC	ata	agc	aca	gat	1681
200	Asn	Ser	Val	Arg	Asn	Ala	Asp	Ser	Arg	Gly		Leu	Ile	Ser	Thr		
201						550					555					560	
						cca											1729
204	Ser	Gly	Asn	Ser	Leu	Pro	Glu	Arg	Asn	Ser	Glu	Lys	Ser	Asn	Ser	Leu	
205					565					570					575		
207	gat	aag	cac	caa	caa	agt	agc	aca	ttg	gga	aat	tcc	gtg	gtt	cgc	tgt	1777
208	Asp	Lys	His	Gln	Gln	Ser	Ser	Thr	Leu	Gly	Asn	Ser	Val	Val	Arg	Cys	
209				580					585					590			
211	gat	aaa	ctt	gac	cag	tct	gag	att	aag	agc	cta	ctg	atg	tgt	ttc	ctc	1825
212	Asp	Lys	Leu	Asp	Gln	Ser	Glu	Ile	Lys	Ser	Leu	Leu	Met	Cys	Phe	Leu	
213	-	_	595					600					605				
215	tac	atc	tta	aag	agc	atg	tct	gat	gat	gct	ttg	ttt	aca	tat	tgg	aac	1873
						Met											
217	-	610		-			615					620					
219	aaq	qct	tca	aca	tct	gaa	ctt	atg	gat	ttt	ttt	aca	ata	tct	gaa	gtc	1921
220	Lys	Ala	Ser	Thr	Ser	Glu	Leu	Met	Asp	Phe	Phe	Thr	Ile	Ser	Glu	Val	
221	_					630					635					640	
223	tqc	ctq	cac	cag	ttc	cag	tac	atg	ggg	aag	cga	tac	ata	gcc	agg	aac	1969
224	Cys	Leu	His	Gln	Phe	Gln	Tyr	Met	Gly	Lys	Arg	Tyr	Ile	Ala	Arg	Asn	
225	-				645		_			650					655		
	caq	qaq	qqq	ttq	gga	ccc	ata	gtt	cat	gat	cga	aag	tct	cag	aca	ttg	2017
228	Gln	Ğlu	Gly	Leu	Gly	Pro	Ile	Val	His	Asp	Arg	Lys	Ser	Gln	Thr	Leu	
229			-	660	_				665					670			
231	cct	gtt	tcc	cgt	aac	aga	aca	gga	atg	atg	cat	gcc	aga	ttg	cag	cag	2065
232	Pro	Val	Ser	Arg	Asn	Arg	Thr	Gly	Met	Met	His	Ala	Arg	Leu	Gln	Gln	
233			675					680					685				
235	ctg	ggc	agc	ctg	gat	aac	tct	ctc	act	ttt	aac	cac	agc	tat	ggc	cac	2113
236	Leu	Gly	Ser	Leu	Asp	Asn	Ser	Leu	Thr	Phe	Asn	His	Ser	Tyr	Gly	His	
237		690					695					700		,			
239	tcg	gac	gca	gat	gtt	ctg	cac	cag	tca	tta	ctt	gaa	gcc	aac	att	gct	2161
240	Ser	Asp	Ala	Asp	Val	Leu	His	Gln	Ser	Leu	Leu	Glu	Ala	Asn	Ile	Ala	
	705					710					715					720	
243	act	gag	gtt	tgc	ctg	aca	gct	ctg	gac	acg	ctt	tct	cta	ttt	aca	ttg	2209
244	Thr	Glu	Val	Cys	Leu	Thr	Ala	Leu	Asp	Thr	Leu	Ser	Leu	Phe	Thr	Leu	
245					725					730					735		
						ctc											2257
248	Ala	Phe	Lys	Asn	Gln	Leu	Leu	Ala	Asp	His	Gly	His	Asn	Pro	Leu	Met	
249				740					745					750		•	
						gtc											2305
252	Lys	Lys	Val	Phe	Asp	Val	Tyr	Leu	Cys	Phe	Leu	Gln	Lys	His	Gln	Ser	
253			755					760					765				
						aat											2353
256	Glu	Thr	Ala	Leu	Lys	Asn	Val	Phe	Thr	Ala	Leu	Arg	Ser	Leu	Ile	Tyr	
257		770					775					780					
						ttc											2401
260	Lys	Phe	Pro	Ser	Thr	Phe	Tyr	Glu	Gly	Arg	Ala	Asp	Met	Cys	Ala	Ala	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/687,837

DATE: 04/23/2002
TIME: 09:34:13

Input Set : A:\20054210.app

Output Set: N:\CRF3\04232002\1687837.raw

261						790					795					800	
															tcc		2449
264	Leu	Cys	Tyr	Glu	Ile	Leu	Lys	Cys	Cys		Ser	Lys	Leu	Ser	Ser	Ile	
265					805					810					815		
267	agg	acg	gag	gcc	tcc	cag	ctg	ctc	tac	ttc	ctg	atg	agg	aac	aac	ttt	2497
268	Arg	Thr	Glu	Ala	Ser	Gln	Leu	Leu	Tyr	Phe	Leu	Met	Arg	Asn	Asn	Phe	
269				820					825					830			
271	gat	tac	act	gga	aag	aag	tcc	ttt	gtc	cgg	aca	cat	ttg	caa	gtc	atc	2545
272	Asp	Tyr	Thr	Gly	Lys	Lys	Ser	Phe	Val	Arg	Thr	His	Leu	Gln	Val	Ile	
273	_		835					840					845				
275	ata	tct	gtc	agc	cag	ctg	ata	gca	gac	gtt	gtt	ggc	att	ggg	gaa	acc	2593
															Glu		
277		850					855		_			860					
	aσa		caq	caq	tcc	cta	tcc	atc	atc	aac	aac	tgt	qcc	aac	agt	gac	2641
															Ser		
281	-	1	· · · · ·	02		870					875	-				880	
		ctt	att	aad	cac		age	ttc	tee	tet		ata	aaσ	σac	tta	acc	2689
203	Ara	Len	Tle	Tare	Hic	Thr	Ser	Phe	Ser	Ser	Asn	Val	Lvs	Asp	Leu	Thr	
285	AIG	пец	110	шуз	885	T 111	DCI	1110	DCI	890	пор	, 41	2,0	1105	895		
	222	200	2+2	000		a+a	at a	ato	acc		acc	cad	ato	aarr	gag	cat	2737
207	Tura	۵yy	Tlo	724	Thr	77-1	Leu	Mot	λla	Thr	Δla	Gln	Met	Lvc	Glu	His	2.0.
	цуѕ	AIG	TIE		T111	Val	шец	Mec	905	1111	ALG	GIII	1100	910	OLU	1110	
289				900						a+ a	~~~	+	200		~~~	222	2785
291	gag	aac	gac	cca	gag	atg	CLG	gra	gac	Tan	Cay	m	con	Tou	gcc	Tuc	2/03
	GIU	Asn		Pro	GIU	Met	ьеu		ASP	ьец	GIII	тут		пеп	Ala	цуз	
293			915					920				.	925			-+-	2833
295	tcc	tat	gcc	agc	acg	ccc	gag	CTC	agg	aag	acg	Lgg	T	gac	agc	aly Mot	∠033
	Ser	_	Ala	Ser	Thr	Pro		ьeu	Arg	гаг	Thr		ьeu	Asp	Ser	Met	
297		930					935					940					2001
															atg		2881
		Arg	Ile	His	Val		Asn	GLY	Asp	Leu		GIU	Ala	Ala	Met		
	945					950					955			•		960	0000
															aaa		2929
304	Tyr	Val	His	Val		Ala	Leu	Val	Ala		Tyr	Leu	Thr	Arg	Lys	GIA	
305					965					970					975		
															aac		2977
308	Val	Phe	Arg	Gln	Gly	Cys	Thr	Ala	Phe	Arg	Val	Ile	Thr		Asn	Ile	
309				980					985					990			
															gtc		3025
312	Asp	Glu	Glu	Ala	Ser	Met				Val	Gly				Val	His	
313			995				:	1000				:	1005				
315	ttc	aac	gag	gat	gtg	ctg	atg	gag	ctc	ctt	gag	cag	tgc	gca	gat	gga	3073
316	Phe	Asn	Glu	Asp	Val	Leu	Met	Glu	Leu	Leu	Glu	Gln	Cys	Ala	Asp	Gly	
317		1010		_			1015					1020					
319	ctc	tgg	aaa	gcc	gag	cgc	tac	gag	ctc	atc	gcc	gac	atc	tac	aaa	ctt	3121
															Lys		
	102		1 -			1030					1035	-		-		1040	
			ccc	att			aaσ	caa	аσσ	gat	ttc	ttt	qaa	gat	gaa	gat	3169
															Glu		
325					1045		_1_	3		1050					1055	-	
223				•	-043				•					•			



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/687,837

DATE: 04/23/2002 TIME: 09:34:14

Input Set : A:\20054210.app

```
L:5199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:5205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:5206 \ M:341 \ W: \ (46) "n" or "Xaa" used, for SEQ ID#:68
L:5207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:5208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:5209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:5210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:5229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:5237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:5238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:5239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:5240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:5259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:5295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:5305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:5330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:5332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:5333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:5334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:5335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:5336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:5364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:5392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:5393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:5394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:5395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:5396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:5421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:5423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:5424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
```

VERIFICATION SUMMARY

DATE: 04/23/2002

PATENT APPLICATION: US/09/687,837

TIME: 09:34:14

Input Set : A:\20054210.app

Output Set: N:\CRF3\04232002\1687837.raw

L:5425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 L:5451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76